A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01F23/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	DE 101 18 061 A (BOSCH GMBH ROBERT) 24 October 2002 (2002-10-24) column 3, line 26 -column 4, line 31; figures 2-5	1-3,5-7
Х	US 3 103 815 A (GARDNER) 17 September 1963 (1963-09-17)	1,2
Υ	column 2, line 47 -column 4, line 6; figures 2,3	5 , 7
Х .	DE 196 49 366 A (SIEMENS AUTOMOTIVE SA) 4 June 1998 (1998-06-04)	1-3,6
Υ	figures 1,4A-4K	8
Υ	DE 43 23 827 C (FORD WERKE AG ;SIEMENS AG (DE)) 8 December 1994 (1994-12-08) column 2, line 46 - line 61; figures 3,4	5,7
	-/	

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 25 March 2003	Date of mailing of the international search report $04/04/2003$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Rose, A

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONALER REPERCHENBERICHT

Intern les Aktenzeichen
PCT/DE 02/03564

	1 C1/DE 02/033	2/03564	
	ung) ALS WESENTLICH ANGESEHENE UNTERLAGEN		
Kategorie°	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile Betr. A	nspruch Nr.	
Υ .	DE 29 30 051 A (FELTEN & GUILLEAUME CARLSWERK) 12. Februar 1981 (1981-02-12) Seite 12, Zeile 29 -Seite 13, Zeile 3; (P. /2, P. 29 - /2, Abbildung 4 (Fig. 4)	8	
A	US 5 437 184 A (SHILLADY ROBERT W) 1. August 1995 (1995-08-01) Spalte 7, Zeile 5 -Spalte 8, Zeile 58; (\omega/r, \ell-r-\omega/r Abbildung 3A (Fig. 3A)	1,5,6 <i>P, P</i> .5-P)	
Α .	WO 99 30117 A (BEDIA MOTORENTECHNIK GMBH; HOFBECK MARTIN (DE); KODL GEORG (DE); V) 17. Juni 1999 (1999-06-17) Seite 7, Zeile 9 -Seite 8, Zeile 31; (p. 7, l·9 - p. 8, 4) Abbildungen 1A,1B,2A-2C,3A-3D (Figs. (A, 18, 2A-2C, 3A-3D)	1-4 0.31) 3A-30)	
į			
•			
	·		

INTERNATIONAL SEARCH REPORT

nit ation on patent family members

PCT/DE 02/03564

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
DE 10118061	А	24-10-2002	DE . WO	10118061 A1 02084228 A1	24-10-2002 24-10-2002
US 3103815	Α	17-09-1963	NONE		
DE 19649366	A	04-06-1998	DE WO	19649366 A1 9823953 A1	04-06-1998 04-06-1998
DE 4323827	C	08-12-1994	DE AT CA DE EP US	4323827 C1 150610 T 2127905 A1 59402120 D1 0634888 A1 5446626 A	08-12-1994 15-04-1997 16-01-1995 24-04-1997 18-01-1995 29-08-1995
DE 2930051	Α	12-02-1981	DE	2930051 A1	12-02-1981
US 5437184	. A	01-08-1995	NONE		
WO 9930117	A	17-06-1999	DE WO EP	19754093 A1 9930117 A1 1060366 A1	15-07-1999 17-06-1999 20-12-2000